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TI Method and apparatus for producing lightweight cellular **concrete**  
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CC 58-2 (Cement, Concrete, and Related Building Materials)

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|      | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,<br>IE, SI, LT, LV, FI, RO |      |          |                 |          |
|      | GB 2356628   | A1   | 20010530 | GB 1999-28168   | 19991129 |
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CLASS

| PATENT NO. | CLASS | PATENT FAMILY CLASSIFICATION CODES   |
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| EP 1103533 | ICM   | C04B038-10   |
|            | ICS   | C04B028-02; E01C007-14; E01C019-02; B28C005-38;<br>B28C009-04; B28C007-06  |
| EP 1103533 | ECLA  | B01F005/04C14B; B01F005/04C14C; B01F007/08C;<br>B28C005/12F2; B28C005/12F4; B28C005/38B; B28C007/00A2;<br>B28C007/6; B28C009/04F; B28C009/04F2; C04B028/02;<br>C04B038/10; C04B040/00D; E01C011/00B; E01C019/02B |
| GB 2356628 | ECLA  | B28C005/38B; B28C007/06; B28C009/04F; C04B028/02;<br>C04B038/10; E01C011/00B; E01C019/02B  |

AB A process and app. are designated to manuf. a low d. foam **concrete** contg. a recycled, excavated materials. The excavated materials are crushed, graded and used in a ratio of 6:1 with the **cement** with a foaming agent (esp. Zenfoam - a blend of **hydrolyzed protein and surfactants**). A preformed foam may be used to obtain a high void vol. and a plasticizer (esp. Zenplus) added to improve fluidity. The foam **concrete** is manufd. on-site on a continuous basis using a mobile **concrete** making vehicle having an elongate tubular mixer into which the components are introduced at selected points along its length, to control the final compn. of the mix. The mixer has internal agitating means that cause backflow to enable the **concrete** to be dispensed directly at ground level.

ST cellular lightwt **concrete cement** excavated clay

IT **Concrete**